SYLLABUS Topics in Inorganic Chemistry CHMD39H8, Fall 209

Instructor Information

Instructor Email

Office Office hourswill be announced ol6(f)-

- 5. Structures and properties onforganic polymers
 - a. Variety of structural classifications
 - b. Physical properties speciffor polymers
 - c. Inorganic polymers in natureelementsand silicateminerals revisited
 - d. Inorganic polymerscontaining main group elementschly
 - e. Inorganic polymers containing transition metals
 - f. Polyoxometallates as oligomers

Note that the above is a list of topics we talk about not necessarily a weekby-week lecture schedule. I would like to have discussion and fluidity in the clases opposed to a strict lecture bylecture material (Although, admittedly, some material you have not encountered before will requir a more formal lecture approach) hus, little material will be provided as lecture notes in this course I hope that this would allow us not only to learn recabout structural chemistry but also eview a lot of inorganic material from CHMB31 and CHMCF or each lecture there will be a very short handout available **b** the learning portal (Quercus) but lining the required readings, suggested readings, lecture goals and questions that go beyond the materiad red. As you could expect, this course does not have a textboo (dathough your CHMB31/C31 textbook is still useful as a background source) Most of the readings are available **dime**. The relevant lecture notes from CHMB31 and CHMC31 will be reposted on , D i \tilde{o} · j \tilde{s} ~ $i\mu \cdot \tilde{s}$]v · $C_{j}\mu$ Z disted fleat gas you $K \times K \pm Z$ the assignmentOn top of thisvI consider everything to be a fair game (calculations, reactivity, etc.) at this level and in this course type.

Paper/short presentation. You can pick a topigour owntopic, but I would strongly advise you to check with me if the opic is acceptable and if the content is still to the right track as you work on your paper. The main criterioris that your topic has to touchat least twoof the course themes structural methods (Xay, IR etc.), polymers synthesis historically important inorganic/organometallic structural problems and application of structural results to solve estions in reactivity. Your paper should be concise, about pages in lengt with 5-7 sources used (as current as possible!). You wihave a15-minute presentation followed by Q&A. The presentations will be scheduled in class at the end of the course. The presentation schedule will be posted at least one week before the presentiaons start.

DiscussionsOne of the overall goals of thissourse is to make youeview, question and the think the material covered in earlier courses (starting from high school science classes). This prior knowledge is expected and fundamental for understiding of the inclass material. This part of evaluation we look at your ability to ask questions and vigate through old and new and make relevant connections through discussions.

Final exam.Our final exam will be cumulative and scheduled outside lærgclass hours. The exam questions will be integrative, i.e. would cover more than one topic listed above, because (again) you have to show the ability to relate two or more complex conceptonic coherent answer. Keep in mind that you are not supposed the experts in allwe cover rather you have to be able to comfortably navigate through material that could usually be found ublished full papersA good hint: look at the questions afte end of lecture handouts; some of themz hight [appear on the final.

Office hours and contact info

My office is located in the Environmental Sciences and Chemistry Building (behind the Instructional Center), ♣ (o}}Œ U Œ}u s ñ ò ô X d Zedu}e (Ajill beZp)pste e of Quercus as soon as my schedule is finali

CHMD39H3 Resources

The reading materials are different for each lecture. They will be provided only for the sources about a week before each lecture. An electronic copy (pel) fivill be provided only for the sources that are not available online through UofT system or physically at UTSC libtatropse are very few. ^} u i CE] š Ç } (u š OEto find Collow/inogoth of provided list. Of course, you are free to use our inorganic chemistry textbook as refresher source, old CHMB31 and CHMC31 notes as well as any other material you find interesting.

Academic Integrity

Academic integrity is one of the university of Toronto. It is critically important both to maintain our community which honors the values of honesty, trust, respect, fairness and responsibility. It also protects you, the student within our community as well as the vaf the degree towards which you are all working so diligently. Detailed in about how to act with academic integrity, the Code of Behavior on Academic Matters, and the processes by which allegations of academic misconduct are resolved can be undo online: http://www.artsci.utoronto.ca/osai/students and

http://www.utsc.utoronto.ca/~vpdean/academic_integrity.html

Section B of the University of Toronto's Code of Behaviour on Academic Matters (<u>http://www.governingcouncil.utoronto.ca/policies/behaveac.h</u>)rhists actions that are considered academic offences one of the most common offences are:

To use someone else's ideas or words in their own work without acknowledging that those ideas/words are not their own with a citation and datation marks, i.e. to commit plagiarism

To includefalse, misleadingor concocted citations in their work.

To obtainunauthorizedassistance on any assignment.

To provide unauthorized assistance to another student.

Tofalsify or alter any documentation required by the University. This includes, but is not limited to, doctor's notes.

To use or possess an unauthorized aid in any test or exam.

There are other offences conced under the Code, but these are by far the most common. Please respect these rules and thealues, which they protect. Offences against academic integrity will be dealt with according to the procedures outlined in the Code of Behavior on Academic Matters

Accessibility

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that magequire accommodations, please feel free to approach me